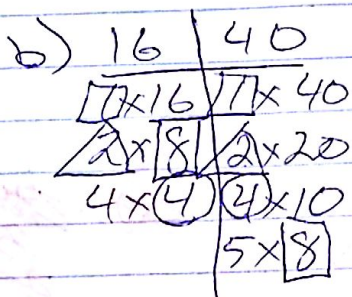
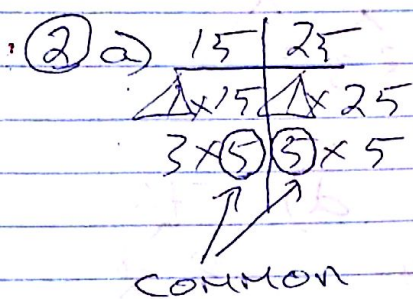
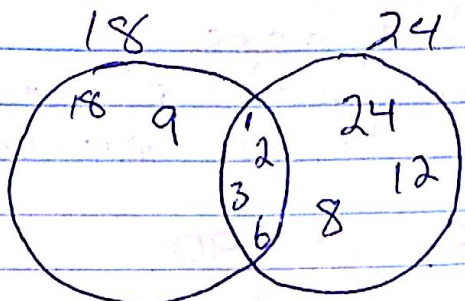


Investigating Factors

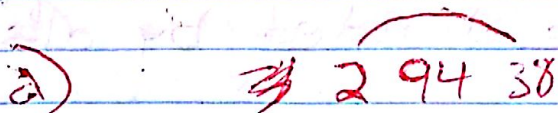
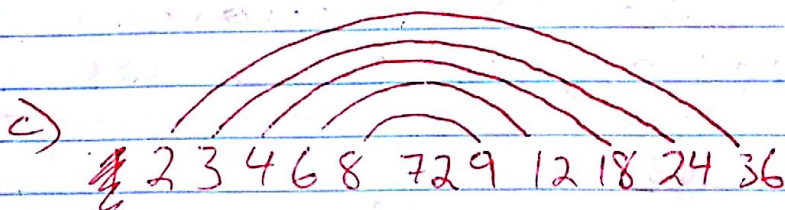
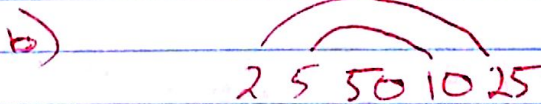
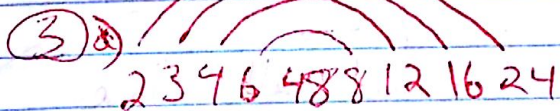
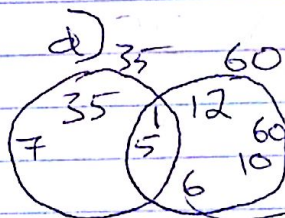
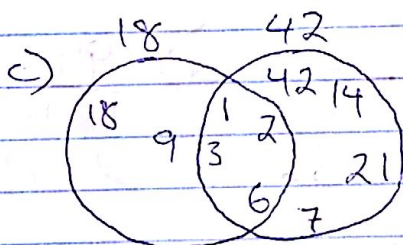
1



2 diff methods

COM. = 1 and 5

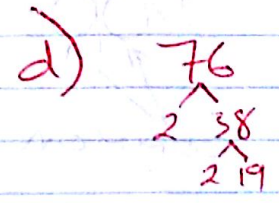
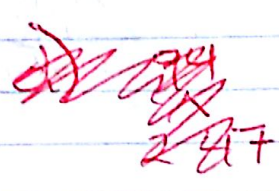
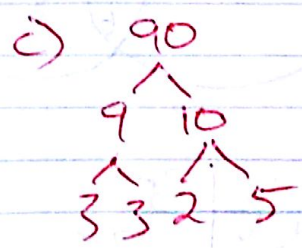
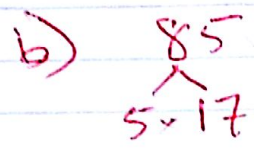
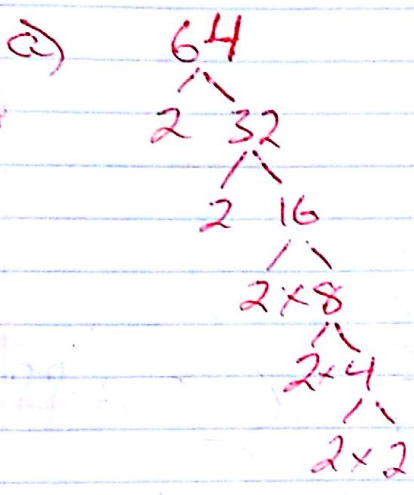
COMM = 1 and 2 and 4 and 8



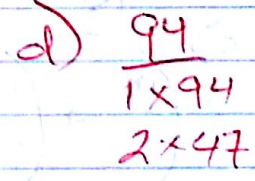
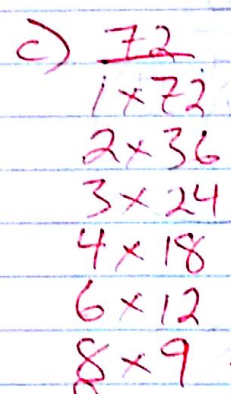
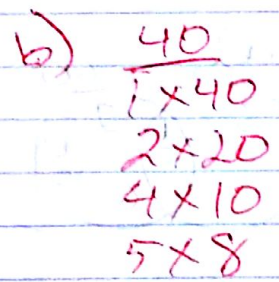
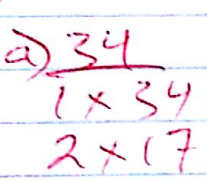
5
4
3

* There are many possible factor Trees but here is a sample. Your factor trees should end in Prime numbers.

Oops, I switched #'s



5
4



* I know I have found all the factors when the factors in my multiplication sentences are close together.

* ... or when the number cannot be divided by other numbers.

6) a) $18 \div 2 = 9$
 $18 \div 3 = 6$
 $18 \div 6 = 3$ Prime
 $18 \div 9 = 2$

b) $35 = 5 \times 7$ Prime
 c) $36 \div 2 = 18$
 $36 \div 3 = 12$
 $36 \div 4 = 9$
 $36 \div 6 = 6$

d) $50 \div 2 = 25$
 $50 \div 5 = 10$
 5

7) a) $\frac{15}{1, 3, 5}$

b) $\frac{6}{1, 2, 3}$

c) $\frac{21}{1, 3, 7}$

d) $\frac{33}{1, 3, 11, 33}$

8) a) $\frac{63}{7 \ 9}$
 $\frac{7 \ 9}{1 \ 11}$
 $7 \ 3 \ 3$

$\frac{42}{7 \ 6}$
 $\frac{7 \ 6}{1 \ 11}$
 $7 \ 2 \ 3$

$\frac{105}{7 \ 15}$
 $\frac{7 \ 15}{1 \ 11}$
 $7 \ 5 \ 3$

b) $\frac{36}{6 \ 6}$
 $\frac{6 \ 6}{1 \ 11}$
 $2 \ 3 \ 2 \ 3$

$\frac{60}{6 \ 10}$
 $\frac{6 \ 10}{1 \ 11}$
 $2 \ 3 \ 2 \ 5$

$\frac{84}{6 \ 14}$
 $\frac{6 \ 14}{1 \ 11}$
 $2 \ 3 \ 2 \ 7$

9) a) $\frac{84}{1 \times 84}$
 2×42
 3×28
 4×21
 6×14
 7×12

She could put ~~with~~ them in rows of 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

b) Prime factors of 84 are...
 1, 2, 3, 7,

⑩ a) Factors of 12 are.

12
1 × 12
2 × 6
3 × 4

b) Common factors of 18 and 24 are... 1, 2, 3, 6

18	24
① × ⑧	① × 24
② × 9	② × 12
③ × 6	③ × ⑧
	4 × 6

⑪

⑫ a) 56 56 b)

1	1
2 × 28	4 × 14
4	2 2 2 7
7	
2 2	